

=> d his

(FILE 'HOME' ENTERED AT 11:50:53 ON 08 MAR 2006) ✓

FILE 'REGISTRY' ENTERED AT 11:51:02 ON 08 MAR 2006

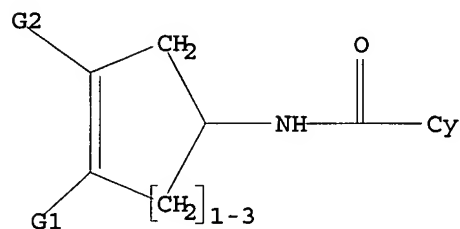
L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 STRUCTURE UPLOADED
L4 STRUCTURE UPLOADED
L5 0 S L1 OR L2 OR L3 OR L4
L6 51 S L5 FULL

FILE 'CAPLUS' ENTERED AT 11:53:22 ON 08 MAR 2006

L7 10 S L6

=> d que l7 stat

L1 STR

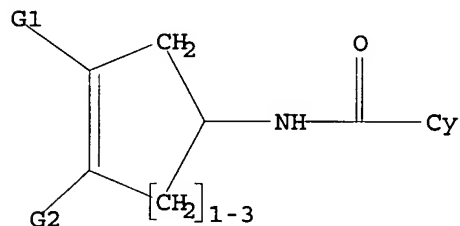


G1 O, S, N

G2 C, O, S, N

Structure attributes must be viewed using STN Express query preparation.

L2 STR

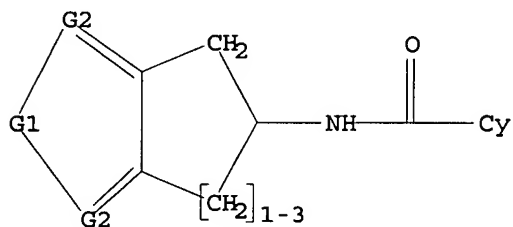


G1 O, S, N

G2 C, O, S, N

Structure attributes must be viewed using STN Express query preparation.

L3 STR

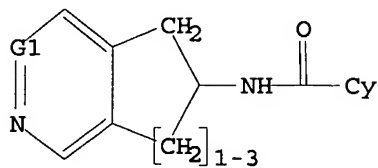


G1 O, S, N

G2 C, O, S, N

Structure attributes must be viewed using STN Express query preparation.

L4 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

L6 51 SEA FILE=REGISTRY SSS FUL L1 OR L2 OR L3 OR L4

L7 10 SEA FILE=CAPLUS ABB=ON PLU=ON L6

=> d 1-10 bib abs hitstr

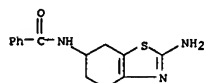
L7 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2006:101042 CAPLUS
 DN 144:169674
 TI Biocatalytic process for preparing enantiomerically enriched pramipexole
 Valivety, Rao H.; Michels, Peter C.; Pantaleone, David P.; Khmel'nitsky, Yuri L.
 PA Amr Technology, Inc., USA
 SO PCT Int. Appl., 51 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006012277	A2	20060202	WO 2005-US22417	20050623

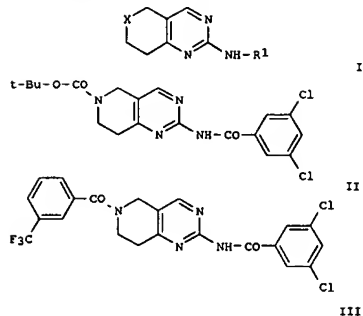
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RN: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

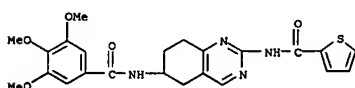
PRAI US 2004-584422P P 20040630
 AB Biocatalytic process for preparing enantiomerically enriched pramipexole and pramipexole precursors are disclosed.
 IT 874658-82-9
 RI: BCP (Biochemical process); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)
 (biocatalytic process for preparing enantiomerically enriched pramipexole)
 RN 874658-82-9 CAPLUS
 CN Benzamide, N-(2-amino-4,5,6,7-tetrahydro-6-benzothiazolyl)- (9CI) (CA INDEX NAME)



L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB Title compds. I [X = CH(NHR2), NR2a; R1 = COR3, COOR4; R2, R2a = COR5, SO2R6; R3 = alkyl with provisos; R4 = (un)substituted aryl, heteroaryl;
 R5 = alkyl with provisos; R6 = NR10R11; R10, R11 = alkyl] and their pharmaceutically acceptable salts were prepared. For example, sequential Boc-deprotection of amine II and N-acylation with 3-trifluorobenzoic acid afforded claimed quinazolinamine in 55% yield. In norepinephrine reuptake assays, 51-examples of compds. I at 10 µM exhibited 29-96% inhibition.
 IT 869196-67-8P 869197-00-2P 869197-02-4P 869197-09-1P 869197-15-9P 869197-40-0P 869197-45-3P 869197-60-4P 869197-63-7P 869197-75-1P 869198-08-3P 869198-40-3P 869198-50-5P 869198-59-4P 869198-62-9P 869198-77-6P 869198-80-1P 869198-89-0P
 RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of tetrahydroquinazolinamines and related compds. as norepinephrine reuptake inhibitors)
 RN 869196-67-8 CAPLUS
 CN 2-Thiophenecarboxamide, N-[5,6,7,8-tetrahydro-6-[(3,4,5-trimethoxybenzoyl)amino]-2-quinazolinyl]- (9CI) (CA INDEX NAME)



RN 869197-00-2 CAPLUS

L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:1200420 CAPLUS
 DN 143:460176
 TI Preparation of 5,6,7,8-tetrahydro-2-quinazolinamines and related compounds
 as norepinephrine reuptake inhibitors
 IN Oberboersch, Stefan; Sundermann, Bernd; Sundermann, Corinna; Haurand, Michael; Hennies, Hagen-Heinrich; Bijsterveld, Edward
 PA Gruenenthal G.m.b.H., Germany
 SO PCT Int. Appl., 193 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

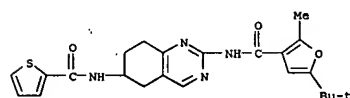
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005105759	A1	20051110	WO 2005-EP4489	20050427

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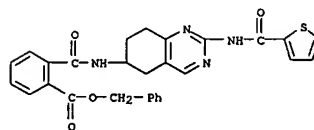
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DE 102004020908 A1 20051117 DE 2004-102004020908 20040428
 PRAI DE 2004-102004020908 A 20040428
 OS MARPAT 143:460176
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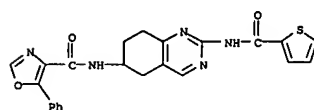
L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN 3-Furancarboxamide, 5-[(1,1-dimethylethyl)-2-methyl-N-[5,6,7,8-tetrahydro-6-[(2-thienylcarbonyl)amino]-2-quinazolinyl]- (9CI) (CA INDEX NAME)



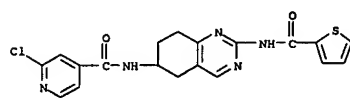
RN 869197-02-4 CAPLUS
 CN Benzoic acid, 2-[[[5,6,7,8-tetrahydro-2-[(2-thienylcarbonyl)amino]-6-quinazolinyl]amino]carbonyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 869197-09-1 CAPLUS
 CN 4-Oxazolecarboxamide, 5-phenyl-N-[5,6,7,8-tetrahydro-2-[(2-thienylcarbonyl)amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

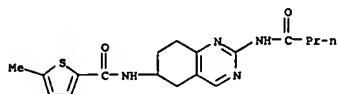


RN 869197-15-9 CAPLUS
 CN 4-Pyridinecarboxamide, 2-chloro-N-[5,6,7,8-tetrahydro-2-[(2-thienylcarbonyl)amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

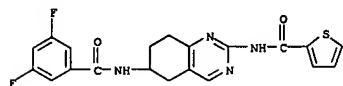


RN 869197-40-0 CAPLUS

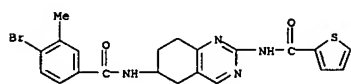
L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN 2-Thiophenecarboxamide, 5-methyl-N-[5,6,7,8-tetrahydro-2-[(1-oxobutyl)amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)



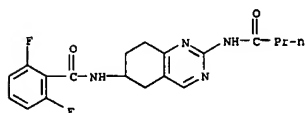
RN 869197-45-5 CAPLUS
 CN 2-Thiophenecarboxamide, N-[6-[(3,5-difluorobenzoyl)amino]-5,6,7,8-tetrahydro-2-quinazolinyl]- (9CI) (CA INDEX NAME)



RN 869197-60-4 CAPLUS
 CN 2-Thiophenecarboxamide, N-[6-[(4-bromo-3-methylbenzoyl)amino]-5,6,7,8-tetrahydro-2-quinazolinyl]- (9CI) (CA INDEX NAME)

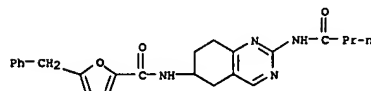


RN 869197-63-7 CAPLUS
 CN Benzamide, 2,6-difluoro-N-[5,6,7,8-tetrahydro-2-[(1-oxobutyl)amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

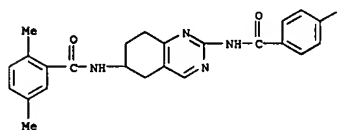


RN 869197-75-1 CAPLUS
 CN 2-Furancarboxamide, 5-(phenylmethyl)-N-[5,6,7,8-tetrahydro-2-[(1-oxobutyl)amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)

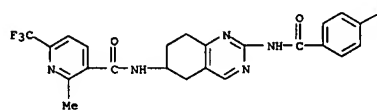
L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN oxobutyl)amino]-6-quinazolinyl]- (9CI) (CA INDEX NAME)



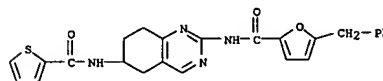
RN 869198-08-3 CAPLUS
 CN Benzamide, N-[2-[(4-fluorobenzoyl)amino]-5,6,7,8-tetrahydro-6-quinazolinyl]-2,5-dimethyl- (9CI) (CA INDEX NAME)



RN 869198-40-3 CAPLUS
 CN 3-Pyridinecarboxamide, N-[2-[(4-fluorobenzoyl)amino]-5,6,7,8-tetrahydro-6-quinazolinyl]-2-methyl-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

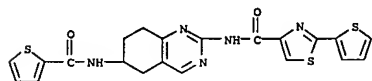


RN 869198-50-5 CAPLUS
 CN 2-Furancarboxamide, 5-(phenylmethyl)-N-[5,6,7,8-tetrahydro-6-[(2-thienylcarbonyl)amino]-2-quinazolinyl]- (9CI) (CA INDEX NAME)

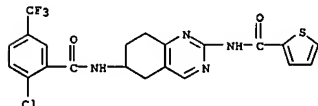


L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

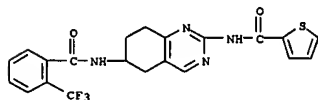
RN 869198-59-4 CAPLUS
 CN 4-Thiazolecarboxamide, N-[5,6,7,8-tetrahydro-6-[(2-thienylcarbonyl)amino]-2-quinazolinyl]-2-(2-thienyl)- (9CI) (CA INDEX NAME)



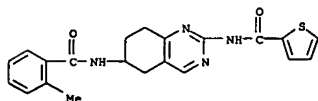
RN 869198-62-9 CAPLUS
 CN 2-Thiophenecarboxamide, N-[6-[(2-chloro-5-(trifluoromethyl)benzoyl)amino]-5,6,7,8-tetrahydro-2-quinazolinyl]- (9CI) (CA INDEX NAME)



RN 869198-77-6 CAPLUS
 CN 2-Thiophenecarboxamide, N-[5,6,7,8-tetrahydro-6-[(2-(trifluoromethyl)benzoyl)amino]-2-quinazolinyl]- (9CI) (CA INDEX NAME)

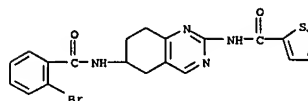


RN 869198-80-1 CAPLUS
 CN 2-Thiophenecarboxamide, N-[5,6,7,8-tetrahydro-6-[(2-methylbenzoyl)amino]-2-quinazolinyl]- (9CI) (CA INDEX NAME)



L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 869198-89-0 CAPLUS
 CN 2-Thiophenecarboxamide, N-[6-[(2-bromobenzoyl)amino]-5,6,7,8-tetrahydro-2-quinazolinyl]- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN
 AN 2005:44313 CAPLUS
 DN 142:261363
 TI Solid-phase synthesis of substituted 3-amino-3'-carboxytetrahydrocarbazoles
 AU Koppitz, Marcus; Reinhardt, Gabriele; van Lingen, Anneke
 CS Automated Medicinal Chemistry, Schering AG, Berlin, 13342, Germany
 SO Tetrahedron Letters (2005), 46(6), 911-914
 CODEN: TELEAY; ISSN: 0040-4039
 FB Elsevier B.V.
 DT Journal
 LA English
 OS CASREACT 142:261363
 AB Two related solid-phase synthesis routes have been developed allowing the synthesis of 3-amino-3'-carboxy substituted tetrahydrocarbazole derivs. Diversity can be introduced at the amino and carboxy functionalities and at the nitrogen and the aromatic ring of the tetrahydrocarbazole moiety. Both routes rely on Fmoc-protected 1-amino-4-oxocyclohexanecarboxylic acid

as central core element. Derivatization of the carboxy function is achieved with amines; derivatization of the amino functionality is possible by reaction with alkyl halides, isocyanates, activated alcs., sulfonic acid chlorides or carboxylic acids. The tetrahydrocarbazole scaffold is generated by Fischer indole cyclization with phenylhydrazine derivs., thereby introducing diversity in the aromatic moiety.

N-Alkylation

at the indole nitrogen with alkyl halides delivers N-substituted derivs.

IT 846567-76-8P 846567-77-9P

RI: SPN (Synthetic preparation); PREP (Preparation)

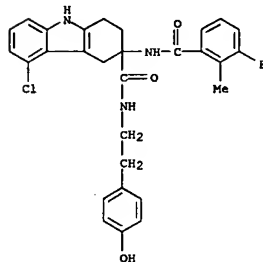
(solid-phase synthesis of substituted 3-amino-3'-

carboxytetrahydrocarbazoles via two related routes involving Fischer

indole cyclization and further functionalization)

RN 846567-76-8 CAPLUS

CN 1H-Carbazole-3-carboxamide, 5-chloro-3-((3-fluoro-2-methylbenzoyl)amino)-2,3,4,9-tetrahydro-N-[2-(4-hydroxyphenyl)ethyl]- (9CI) (CA INDEX NAME)



L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN **APPLICANT**

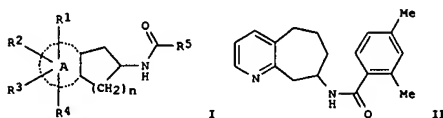
AN 2004:117214 CAPLUS
 DN 140:163869
 TI Preparation of acylated, heteroaryl-condensed cycloalkenylamines for treatment of cardiovascular disorders
 IN Strobel, Hartmut; Wohlfart, Paulus
 PA Aventis Pharma Deutschland GmbH, Germany
 SO Eur. Pat. Appl., 35 pp.
 CODEN: EPXXDW

DT Patent

LA English

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1388342	A1	20040211	EP 2002-17586	20020807
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CA 2494302	AA	20040219	CA 2003-2494302	20030724
WO 2004014372	A1	20040219	WO 2003-EP8103	20030724
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, DE, DK, DM, DO, EC, EE, ES, FI, GB, GD, GE, GH, GM, HP, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003251466	A1	20040225	AU 2003-251466	20030724
EP 1534277	A1	20050601	EP 2003-784055	20030724
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003013240	A	20050927	BR 2003-13240	20030724
JP 2005538124	T2	20051215	JP 2004-526765	20030724
US 2004092513	A1	20050513	US 2003-632083	20030731
NO 2005000830	A	20050216	NO 2005-830	20050216
PRAI EP 2002-17586	A	20020807		
US 2002-432441P	P	20021211		
WO 2003-EP8103	W	20030724		
OS MARPAT 140:163869				
GI				

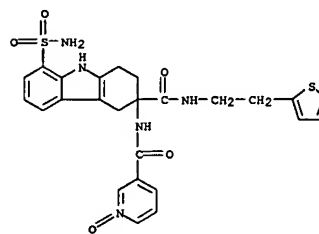


AB The title compds. (I) [the ring A = an aromatic 5-membered or 6-membered ring containing 1 or 2-nitrogen atoms as ring heteroatoms, or an aromatic 5-membered ring containing 1 ring heteroatom which is an oxygen atom or a sulfur atom or

L7 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

RN 846567-77-9 CAPLUS

CN 1H-Carbazole-3-carboxamide, 8-(aminosulfonyl)-2,3,4,9-tetrahydro-3-[[1-(1-oxido-3-pyridinyl)carbonyl]amino]-N-[2-(2-thienyl)ethyl]- (9CI) (CA INDEX NAME)



RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 2 ring heteroatoms one of which is a nitrogen atom and the other of which is an oxygen atom or a sulfur atom; R1, R4 = H, each (un)substituted

C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl, COR9, CONR10R11, CO2R12, CF3, halogens, cyano, NR13R14, OR1, S(O)NR16, SO2NR17R18, NO2; R1 and R4 cannot

be halogen, cyano or NO2 if R1 or R4 is bonded to a ring nitrogen atom; R2, R3 = H, halogens, cyano, (un)substituted C1-10 alkyl, PhCONH, PhSO2O,

(C1-6 alkyl)-CO, or PhCO, OH, C1-10 alkoxy, PhO, S(O)NR19, CF3, cyano, NO2, C1-10 alkylamino, di(C1-10 alkyl)amino, (C1-6 alkyl)-CONH; but R2

and R3 cannot be halogen, cyano or NO2 if R2 or R3 is bonded to a ring nitrogen atom; R5 = (un)substituted Ph, naphth-1-yl, naphth-2-yl, a

5-membered to 10-membered, arom., monocyclic or bicyclic heterocycle contg. one or more heteroatoms selected from the group consisting of N, O and S; R9 = (un)substituted C1-10 alkyl; R10, R12, R17 = H, (un)substituted C1-10 alkyl; R11, R18 = H, C1-10 alkyl; R13, R14 = H,

C1-6 alkyl, each (un)substituted Ph, benzyl, heteroaryl, (C1-6 alkyl)-CO; R16 = (un)substituted C1-10 alkyl, CF3, each (un)substituted Ph or heteroaryl;

m = 0, 1, 2; n = 1, 2, 3 are prepd. These compds. upregulate the expression of the enzyme endothelial nitric oxide (NO) synthase and can

be applied in conditions in which an increased expression of said enzyme or an increased NO level or the normalization of a decreased NO level is desired. They are useful in the treatment of various disease states

including cardiovascular disorders such as atherosclerosis, thrombosis, coronary artery disease, hypertension, and cardiac insufficiency. The

diseases also include stable or unstable angina pectoris, coronary heart disease, Prinzmetal angina, acute coronary syndrome, heart failure,

myocardial infarction, stroke, peripheral artery occlusive disease, endothelial dysfunction, restenosis, endothelial damage after PT-CA,

essential hypertension, pulmonary hypertension, secondary hypertension, renovascular hypertension, chronic glomerulonephritis, erectile

dysfunction, ventricular arrhythmia, diabetes, diabetes complications, nephropathy, retinopathy, angiogenesis, asthma bronchiale, chronic renal

failure, cirrhosis of the liver, osteoporosis, restricted memory performance or a restricted ability to learn, or for the lowering of

cardiovascular risk of postmenopausal women or of women taking contraceptives. For example, 2,4-dimethyl-N-(6,7,8,9-tetrahydro-5H-

cyclohepta[b]pyridin-8-yl)benzamide (II) inhibited activation of human endothelial nitric oxide synthetase gene cloned in human endothelial cell

line with EC50 of 0.054 μM.

IT 654675-40-8P, (R)-N-[6,7-dihydro-5H-[1]pyridin-6-yl]-4-fluorobenzamide 654676-73-OP, (S)-N-[6,7-dihydro-5H-[1]pyridin-6-yl]-4-fluorobenzamide

RI: PAC (Pharmacological activity); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

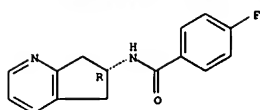
(preparation of acylated, heteroaryl-condensed cycloalkenylamines for treatment of cardiovascular disorders)

RN 654675-40-8 CAPLUS

CN Benzamide, N-[(6R)-6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl]-4-fluoro- (9CI) (CA INDEX NAME)

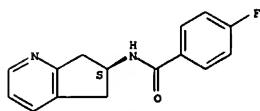
Absolute stereochemistry.

L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 654676-73-0 CAPLUS
CN Benzamide, N-[(6S)-6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl]-4-fluoro- (9CI) (CA INDEX NAME)

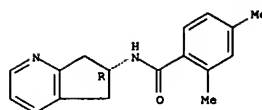
Absolute stereochemistry.



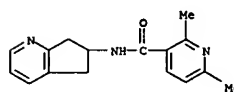
IT 654675-32-8P, (R)-N-[(6,7-Dihydro-5H-[1]pyridin-6-yl)-2,4-dimethylbenzamide 654675-45-3P, N-[(6,7-Dihydro-5H-[1]pyridin-6-yl)-2,6-dimethylnicotinamide 654675-50-0P, N-[(6,7-Dihydro-5H-[1]pyridin-6-yl)-6-methoxynicotinamide 654675-56-6P, 2-Methyl-3H-benzimidazole-5-carboxylic acid
N-[(6,7-dihydro-5H-[1]pyridin-6-yl)amide 654675-63-5P, N-[(6,7-Dihydro-5H-[1]pyridin-6-yl)-6-methoxymethylnicotinamide 654675-72-6P 654675-81-7P 654675-89-5P, 2,4-Dimethyl-N-[(6,7,8,9-tetrahydro-5H-cyclohepta[b]pyridin-8-yl)benzamide 654676-59-2P, (S)-N-[(6,7-Dihydro-5H-[1]pyridin-6-yl)-2,4-dimethylbenzamide 654676-69-3P, N-[(6,7-Dihydro-5H-[1]pyridin-6-yl)-4-fluorobenzamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of acylated, heteroaryl-condensed cycloalkenylamines for treatment of cardiovascular disorders)
RN 654675-32-8 CAPLUS
CN Benzamide,
N-[(6R)-6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl]-2,4-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

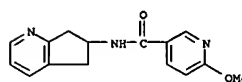
L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



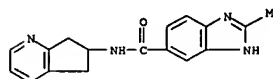
RN 654675-45-3 CAPLUS
CN 3-Pyridinecarboxamide, N-[(6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl)-2,6-dimethyl- (9CI) (CA INDEX NAME)



RN 654675-50-0 CAPLUS
CN 3-Pyridinecarboxamide, N-[(6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl)-6-methoxy- (9CI) (CA INDEX NAME)

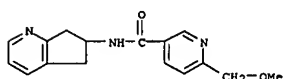


RN 654675-56-6 CAPLUS
CN 1H-Benzimidazole-5-carboxamide, N-[(6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl)-2-methyl- (9CI) (CA INDEX NAME)



RN 654675-63-5 CAPLUS
CN 3-Pyridinecarboxamide, N-[(6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl)-6-methoxymethyl- (9CI) (CA INDEX NAME)

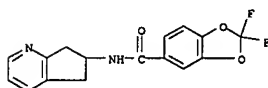
L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 654675-72-6 CAPLUS
CN 1,3-Benzodioxole-5-carboxamide, N-[(6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl)-2,2-difluoro-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 654675-71-5
CMF C16 H12 F2 N2 O3



CM 2

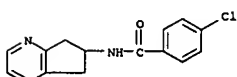
CRN 76-05-1
CMF C2 H F3 O2



RN 654675-81-7 CAPLUS
CN Benzamide, 4-chloro-N-[(6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 654675-80-6
CMF C15 H13 Cl N2 O

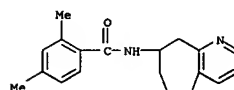


L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 2
CRN 76-05-1
CMF C2 H F3 O2

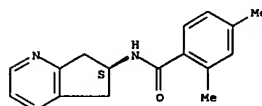


RN 654675-89-5 CAPLUS
CN Benzamide, 2,4-dimethyl-N-[(6,7,8,9-tetrahydro-5H-cyclohepta[b]pyridin-8-yl)- (9CI) (CA INDEX NAME)

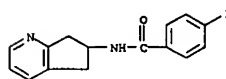


RN 654676-59-2 CAPLUS
CN Benzamide,
N-[(6S)-6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl]-2,4-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 654676-68-3 CAPLUS
CN Benzamide, N-[(6,7-dihydro-5H-cyclopenta[b]pyridin-6-yl)-4-fluoro- (9CI) (CA INDEX NAME)

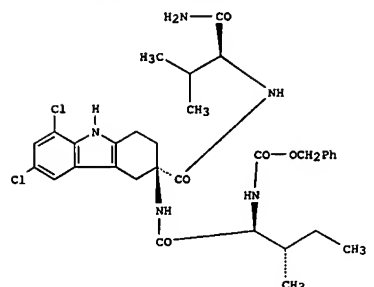


RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN
 AN 2003:491183 CAPLUS
 DN 139:69525
 TI Synthesis of tetrahydrocarbazole derivatives for use as ligands for G-protein coupled receptors and antagonists of gonadotropin-releasing hormone for treatment of disease
 IN Kopitz, Marcus; Muhn, Hans Peter; Shaw, Ken; Hess-Stumpp, Holger; Paulini, Klaus
 PA Zentaris Ag, Germany
 SO PCT Int. Appl., 114 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003051837	A2	20030626	WO 2002-EP14344	20021216
WO 2003051837	A3	20040226		
WO 2003051837	C1	20040506		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10164564	A1	20030626	DE 2001-10164564	20011214
CA 2468880	AA	20030626	CA 2002-2468880	20021216
AU 2002361430	A1	20030630	AU 2002-361430	20021216
US 2003232873	A1	20031218	US 2002-319833	20021216
EP 1453803	A2	20040908	EP 2002-796648	20021216
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
BR 2002014958	A	20041228	BR 2002-14958	20021216
JP 2005518375	T2	20050623	JP 2003-552724	20021216
ZA 2004003352	A	20040927	ZA 2004-3352	20040514
NO 2004002198	A	20040709	NO 2004-2198	20040526
PRAI DE 2001-10164564	A	20011214		
US 2001-341878P	P	20011221		
WO 2002-EP14344	W	20021216		
OS MARPAT 139:69525				
GI				

L7 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

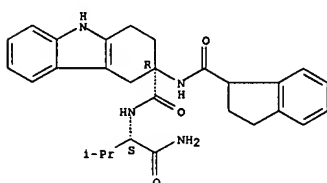


AB The invention relates to novel tetrahydrocarbazole deriva. [e.g., (I)] which act as ligands for G-protein coupled receptors (GPCR), especially as antagonists of gonadotropin-releasing hormone (GnRH), and pharmaceutical composition containing them. Furthermore, the invention relates to the administration of tetrahydrocarbazole deriva. for the treatment of pathol. conditions mediated by GPCR, especially for the inhibition of GnRH, to mammals, especially humans, requiring such treatment, and to the use of tetrahydrocarbazole deriva. for producing a pharmaceutical agent for treating pathol. conditions mediated by GPCR, especially for the inhibition of GnRH. Limited synthesis of intermediate materials is given, with many tables of products exemplified by general synthesis steps. Thus, beginning from 4,4-ethylenedioxy-cyclohexanone and phenylhydrazine, I was prepared in seven generalized steps. In in vitro tests with alpha T3-1 cells, I had IC50 for human GnRH of 1.5 x 10-8 M, with Ca2+ release of 4.5 x 10-8 M.

IT 548752-58-5P 548752-60-9P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of tetrahydrocarbazole deriva. for use as ligands for G-protein coupled receptors and antagonists of gonadotropin-releasing hormone for treatment of disease)
 RN 548752-58-5 CAPLUS
 CN 1H-Carbazole-3-carboxamide, N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-3-[(2,3-dihydro-1H-inden-1-yl)carbonyl]amino]-2,3,4,9-tetrahydro-, (3R)-(9CI) (CA INDEX NAME)

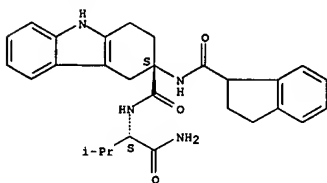
L7 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

Absolute stereochemistry.



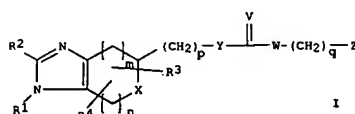
RN 548752-60-9 CAPLUS
 CN 1H-Carbazole-3-carboxamide, N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-3-[(2,3-dihydro-1H-inden-1-yl)carbonyl]amino]-2,3,4,9-tetrahydro-, (3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN
 AN 2001:693325 CAPLUS
 DN 135:257243
 TI Preparation of condensed imidazoles as histamine H3 receptor ligands
 IN Andersen, Knud Erik; Doerwald, Florencio Zaragoza; Sidelmann, Ulla Grove; Rudolf, Klaus; Stenkamp, Dirk; Hurnaus, Rudolf; Mueller, Stephan Georg; Krist, Bernd; Eriksen, Birgitte; Pesche, Bernd
 PA Novo Nordisk A/S, Den.; Boehringer Ingelheim International G.m.b.H.
 SO PCT Int. Appl., 170 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001068652	A1	20010920	WO 2001-DK188	20010316
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 2002058659	A1	20020516	US 2001-810237	20010316
US 6437147	B2	20020820		
EP 1268484	A1	20030102	EP 2001-916934	20010316
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
JP 2003527395	T2	20030916	JP 2001-567743	20010316
US 2003135056	A1	20030717	US 2002-201865	20020723
US 6756384	B2	20040629		
PRAI DK 2000-441	A	20000317		
DK 2000-1016	A	20000629		
US 2000-193741P	P	20000331		
US 2000-216553P	P	20000707		
US 2001-810237	A1	20010316		
WO 2001-DK188	W	20010316		
OS MARPAT 135:257243				
GI				



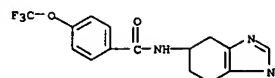
AB A novel class of imidazo heterocyclic compds. (shown as I (e.g. 4,5,6,7-tetrahydro-1H-benzimidazole-5-carboxylic acid [(1S)-(naphth-1-yl)ethyl]amide) as well as any optical or geometric isomer or tautomeric form thereof including mixts. of these or a pharmaceutically acceptable salt thereof), pharmaceutical compns. comprising them and use thereof in the treatment and/or prevention of diseases and disorders related to the histamine H3 receptor. In I: R1 is H or a functional group, which can be

L7 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 converted to H in vivo. R2 is H, Cl-6-alkyl, Cl-6-alkoxy,
 Cl-6-alkylthio,
 halogen, cyano, trifluoromethyl, hydroxy, thiol or amino. R3 and R4
 independently are H or Cl-6-alkyl, which is optionally substituted with
 aryl or heteroaryl, which are optionally substituted with one or more
 substituents selected from nitro, -NR7R8, -S(O)2NR7R8, -C(O)NR7R8,
 hydroxy, halogen, cyano, trifluoromethyl, -OCF3, -OCHF2, -OCH2CHF2,
 Cl-6-alkyl, C2-6-alkenyl, C2-6-alkynyl, Cl-6-alkoxy, Cl-6-alkylthio,
 Cl-6-alkylsulfonyl, -C(O)OR7, Cl-6-alkylcarbonyl, -C(:NOR7)Cl-6-alkyl,
 Cl-10-cycloalkyl, C3-10-cycloalkylcarbonyl, -C(:NOR7)C3-10-cycloalkyl,
 aryl-Cl-6-alkyl, heteroaryl-Cl-6-alkyl, arylamino, heteroarylamino,
 aroyl,
 heteroaryl, arylsulfonyl, heteroarylsulfonyl, -C(:NOR7)aryl,
 -C(:NOR7)heteroaryl, arylthio, heteroarylthio, aryloxy and heteroaryloxy.
 R7 and R8 independently are H or Cl-6-alkyl. M is 0-2; n is 1-4; X is a
 valence bond, -O-, -S-, -S(O)-, -S(O)2- or -CF2-; p is 0-3; Y is valence
 bond, -O-, -S-, or -NR9-, wherein R9 is H or Cl-6-alkyl; V is :O, :S,
 :NR10 (R10 = H, cyano, nitro, Cl-6-alkyl); W is valence bond, -O-, -S-,
 :NR11- (R11 = H, Cl-6-alkyl); q is 0-3. Z is heteroaryl, aryl, aryloxy,
 C3-10-cycloalkyl, C3-8-heterocyclyl or aryl annulated with
 C3-8-heterocyclyl, Cl-6-alkyl, C2-6-alkenyl or C2-6-alkynyl, which are
 optionally substituted with various provisos. More particularly, the
 compds. are useful for the treatment and/or prevention of diseases and
 disorders in which an interaction with the histamine H3 receptor is
 beneficial. The claimed compds. generally show a high binding affinity

to the histamine H3 receptor, most preferably IC50 < 500 nM. Ninety-two
 example preps. are included, but the methods of prep. are not claimed.
 Pharmaceutical compds. contg. the compds. are claimed effective for redn.
 of wt., suppression of appetite and treatment and/or prevention of eating
 disorders (e.g. bulimia, binge eating), impaired glucose tolerance (IGT),
 Type 2 diabetes, allergic rhinitis, ulcer, anorexia, diseases and
 disorders related to the serotonin-3 receptor (5-HT3; e.g. emesis),
 diseases and disorders related to the vanilloid receptor (e.g. pain,
 neurogenic inflammation, obesity), and diseases and disorders related to
 the alpha-2 adrenergic receptor (e.g. sleep inducing agent).

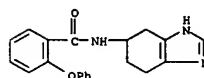
IT 361394-45-BP 361394-49-2P 361394-53-BP
 361394-57-2P
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of condensed imidazoles as histamine H3 receptor ligands)
 RN 361394-45-8 CAPLUS
 CN Benzamide, N-(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)-4-
 (trifluoromethoxy)-, monohydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



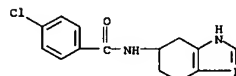
● HCl

RN 361394-49-2 CAPLUS
 CN Benzamide, 2-phenoxy-N-(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)-,
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

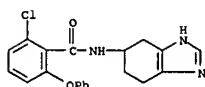
RN 361394-53-8 CAPLUS
 CN Benzamide, 4-chloro-N-(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)-,
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 361394-57-2 CAPLUS
 CN Benzamide,
 2-chloro-6-phenoxy-N-(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)-,
 monohydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1999:626041 CAPLUS
 DN 131:257447
 TI Preparation of amide derivatives as nociception antagonists
 IN Shinkai, Hisashi; Ito, Takao; Yamada, Hideki
 PA Japan Tobacco Inc., Japan
 SO PCT Int. Appl., 113 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FI WO 9948492	A1	19990930	WO 1999-JP1462	19990323
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MM, SD, SL, SS, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GN, GW, MD, MR, NE, SN, TD, TG				
CA 2325638	AA	19990930	CA 1999-2325638	19990323
AU 9928558	A1	19991018	AU 1999-28558	19990323
AU 754716	B2	20021121		
EP 1072263	A1	20010131	EP 1999-909320	19990323
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200003598	T2	20010621	TR 2000-200003598	19990323
BR 9909666	A	20010911	BR 1999-9666	19990323
NZ 507760	A	20021025	NZ 1999-507760	19990323
RU 2202344	C2	20030420	RU 2000-126841	19990323
TW 487571	B	20020521	TW 1999-88104619	19990324
JP 11335355	A2	19991207	JP 1999-80886	19990325
JP 3013989	B2	20000228		
US 6410561	B1	20020625	US 2000-646781	20000922
FI 2000002103	A	20001117	FI 2000-2103	20000925
NO 2000004778	A	20001127	NO 2000-4778	20000925
ZA 2000005881	A	20010823	ZA 2000-5881	20010200
US 2003055087	A1	20030320	US 2002-141866	20020510
US 6903094	B2	20050607		
US 2006030565	A1	20060209	US 2005-145169	20050606
JP 1998-100029	A	19980326		
WO 1999-JP1462	W	19990323		
US 2000-646781	A3	20000922		
US 2002-141866	A3	20020510		

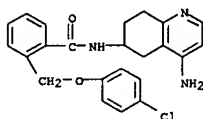
OS MARPAT 131:257447

GI For diagram(s), see printed CA Issue.

AB Amide deriva. e.g. I (R2 represents optionally hydroxylated lower alkyl, amino, etc.; the ring B represents Ph, thienyl, etc.; E represents a single bond, -O-, -S-, etc.; the ring G represents aryl, a heterocycle, etc.; R5 represents halogeno, hydroxy, lower alkyl optionally substituted by, for example, halogeno, etc.; t is 0 or an integer of from 1 to 5, provided that when t is 2 to 5, then R5a may be the same or different; m is 0 or an integer of from 1 to 8; and n is 0 or an integer of from 1 to 4) and their salts, having an analgesic effect on serious pains such as postoperative pain via a nociceptin inhibitory action, are prepared

Thus, chlorination of 2-[(4-ethylphenoxy)methyl]benzoic acid followed by condensation of the acid chloride with 4,6-diamino-2-methylquinoline gave,

L7 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 after treatment with 1N HCl, 59% N-(4-amino-2-methyl-6-quinolyl)-2-[(4-ethylphenoxy)methyl]benzamide hydrochloride (II). II showed analgesic activity at 1 mg/kg orally in mice.
 IT 244219-82-7P
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of amide derivs. as nociceptin antagonists)
 RN 244219-82-7 CAPLUS
 CN Benzamide, N-(4-amino-5,6,7,8-tetrahydro-6-quinolyl)-2-[(4-chlorophenoxy)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

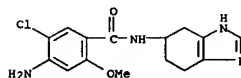


● HCl

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1997:85131 CAPLUS
 DN 126:104085
 TI Preparation of benzoic acid derivatives as 5-HT4 receptor agonists
 IN Suzuki, Takeshi; Iwaoka, Kyoshi; Naito, Makoto; Myata, Keiji; Kamato, Takeshi; Oota, Mitsuaki
 PA Yamanouchi Pharma Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKKXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 08325234	A2	19961210	JP 1995-131264	19950530
PRAI JP 1995-131264		19950530		
OS MARPAT 126:104085				
GI For diagram(s), see printed CA Issue.				
AB The title compds. (Ia and Ib; Im = imidazolyl ring; A ring = 4-8 numbered cycloalkyl; n = 0-2; R2, R5, R6 = H, alkyl; B ring = 4-8 numbered N-containing heterocyclyl; R3 = halo; R4 = lower alkoxy) are prepared I, possessing 5-HT4 receptor antagonism, are useful for prevention and treatment of central and peripheral nervous system, digestive system, cardiovascular system, and urinary system diseases. Thus, 6-(tert-butoxycarbonylamino)-5,6,7,8-tetrahydroimidazo[1,2-a]pyridine was treated with aqueous HCl to give the title compound 6-amino-5,6,7,8-tetrahydroimidazo[1,2-a]pyridine. I showed 5-HT4 receptor antagonism.				
IT 185796-81-0P RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of benzoic acid deriva. as 5-HT4 receptor agonists)				
RN 185796-81-0 CAPLUS				
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)				
CH 1				
CRN 185796-80-9				
CMF C15 H17 Cl N4 O2				

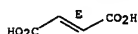


CH 2

CRN 110-17-8

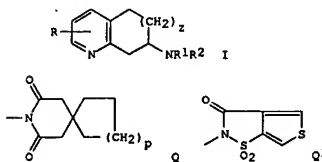
L7 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CMF C4 H4 O4

Double bond geometry as shown.

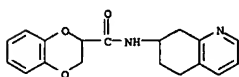


L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1991:228759 CAPLUS
 DN 114:228759
 TI Preparation of 5,6,7,8-tetrahydro-7-aminoquinolines as 5-HT1A antagonists and (partial) agonists
 IN Cliffe, Ian Anthony; White, Alan Chapman; Mansell, Howard Langham
 PA John Wyeth and Brother Ltd., UK
 SO Brit. UK Pat. Appl., 70 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 2230007	A1	19901010	GB 1990-7889	19900406
GB 2230007	B2	19921014		
AU 9052971	A1	19901011	AU 1990-52971	19900405
AU 625845	B2	19920716		
ZA 9002662	A	19910227	ZA 1990-2662	19900405
IL 94011	A1	19940624	IL 1990-94011	19900405
CA 2014062	AA	19901007	CA 1990-2014062	19900406
CA 2014062	C	20000613		
EP 395244	A1	19901031	EP 1990-303708	19900406
EP 395244	B1	19970219		
R: AT, BE, CH, DE, DK, ES, FR, GR, IT, LI, LU, NL, SE				
JP 02290852	A2	19901130	JP 1990-92961	19900406
JP 2945064	B2	19990906		
HU 54658	A2	19910328	HU 1990-2108	19900406
HU 217128	B	19991129		
US 5075303	A	19911224	US 1990-505957	19900406
DD 298391	A5	19920220	DD 1990-339534	19900406
FI 95373	B	19951013	FI 1990-1761	19900406
FI 95373	C	19960125		
AT 149031	E	19970315	AT 1990-303708	19900406
ES 2099703	T3	19970601	ES 1990-303708	19900406
KR 156569	B1	19981116	KR 1990-4697	19900406
HU 217805	B	20000428	HU 1998-2871	19900406
US 5194439	A	19930316	US 1991-765282	19910923
PRAI GB 1989-7865	A	19890407		
HU 1990-2108	A	19900406		
US 1990-505957	A3	19900406		
OS CASREACT 114:228759; MARPAT 114:228759				
GI				



L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 AB The title compds. [I: R = H, HO, alkyl, alkoxy, halo, CF₃, NO₂,
 (alkyl)amino, dialkylamino; R₁ = H, alkyl; R₂ = R₁, (CH₂)_nR₃, etc.; R₁R₂N
 = (un)substituted pyrrolidino, piperidino, piperazino, etc.; R₃ = aryl,
 benzodioxinyl, cyano, OR₄, CO₂R₅, NR₆R₇, etc.; R₄ = H, alkoxy, carbonyl,
 acyl(alkyl); R₅ = H, alkyl, phenylalkyl; R₆, R₇ = H, alkyl, aryl(alkyl),
 etc.; R₆R₇N = O, Q₁, etc.; n = 1-6; p = 1, 2; z = 0-2], their heteroatom.
 N-oxides or pharmaceutically acceptable salts, useful for the treatment
 of, e.g., anxiety, anorexia, and hypertension (no data), were prepared
 Thus, the addition reaction of PrNH₂.HCl with 5,6-dihydroquinoline by
 stirring for 1 h with ice-cooling, followed by reduction of the adduct of
 TiCl₃ in HCl/MeOH gave 5,6,7,8-tetrahydro-7-(1-propylamino)quinoline.
 Cyanomethylation of the latter by heating for 1 h at 100° with
 ClCH₂CN in DMF and reduction of the product by H over Raney Ni in
 saturated
 ethanolic NH₃ gave the aminoethyl intermediate (I; R = H, R₁ = Pr, z = 1;
 (II; R₂ = CH₂CH₂NH₂). This was stirred 0.5 h with 4-FC₆H₄COCl and Et₃N
 in
 CH₂Cl₂ to give title compound (II; R₂ = CH₂CH₂NHCO₂C₆H₄F-4) which in vitro
 (rat hippocampal membrane homogenate) had IC₅₀ of 9 nM for binding on
 5-HT_{1A} receptors.
 IT 133092-48-5P
 R₁: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction of, in preparation of hydroxytryptamine
 antagonist and
 (partial) agonist)
 RN 133092-48-5 CAPLUS
 CN 1,4-Benzodioxin-2-carboxamide, 2,3-dihydro-N-(5,6,7,8-tetrahydro-7-
 quinolinyl)- (ICI) (CA INDEX NAME)

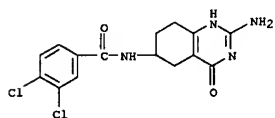


L7 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 g. (crude) Bu ester (VI) of V, m. 273.5-4.5° (hot Methyl
 Cellosolve), Rad 1.48 (9:1 Methyl Cellosolve-H₂O, solvent B); in a larger run
 the yield of VI, m. 265-6°, was 88%. VI (6.0 g.) in 70 cc.
 (MeOCH₂CH₂)₂O added with stirring to 6.06 g. AlCl₃ and 5.16 g. NaBH₄ in
 90 cc. (MeOCH₂CH₂)₂O during 35 min. at 20-2°, stirred 65 min. at
 22-5°, poured onto about 100 g. ice, the mixt. treated with 6 cc.
 concd. H₂SO₄, adjusted to pH 5 with 46 cc. 10% NaOH and evapd. in vacuo
 at 60°, the residue powdered and extd. 10 hrs. with 800 cc. abs. MeOH
 in a Soxhlet app., the ext. evapd., the residual crude sulfate (9.77 g.)
 dissolved in 66 cc. H₂O, the soln. filtered, the filtrate adjusted with
 satd. aq. Na₂CO₃ to pH 9, and the mixt. chilled gave 3.78 g. 6-CH₂OH
 analog (VII) of V, m. above 300°, Rad 1.00 (solvent B), 1.51
 (solvent A), 1.00 (5:2:3 BuOH-AcOH-H₂O, solvent C); picrate of VII m.
 209-11° (H₂O). VII (0.45 g.), 3 cc. dry C₅H₅N, and 1.5 cc. Ac₂O
 heated 1 hr. at 85°, dild. with 20 cc. H₂O, and chilled yielded
 0.42 g. (crude) 2-acetamido-6-acetoxymethyl-5,6,7,8-tetrahydro-4-
 hydroxyquinazoline, m. 207.5-10° (Methyl Cellosolve), Rad 1.45
 (solvent C). p-MeC₆H₄SO₂Cl (0.21 g.) in 1.6 cc. C₅H₅N added dropwise
 with stirring to 0.20 g. VII in 1.5 cc. C₅H₅N, stirred 1.3 hrs. at 0°,
 and poured into 25 cc. ice and H₂O yielded 0.05 g. 2-amino-5,6,7,8-
 tetrahydro-4-hydroxy-6-(p-toluenesulfonyloxymethyl)quinazoline, m.
 212-13.5° (aq. Methyl Cellosolve). SOCl₂ (80 g.) added slowly with
 cooling to 5.00 g. VII and 2.5 g. dry C₅H₅N during 15 min., refluxed 130
 min., concd. in vacuo to 1/4 the original vol., poured with stirring onto
 200 g. ice, filtered, adjusted with 10% aq. NaOH to pH 6-7, and filtered
 yielded 4.32 g. 6-ClCH₂ analog (VIII) of V, m. 287-8.5° (Methyl
 Cellosolve). VIII (0.54 g.), 2.0 g. N-(p-aminobenzoyl)-L-glutamic acid
 (IX), 5.0 cc. Bu Cellosolve, and a trace of NaI refluxed 13 hrs., cooled,
 dild. with 100 cc. Et₂O, filtered, the residue washed with Et₂O, stirred
 to soln. with 5 cc. N NaOH, treated with Norit, filtered, adjusted to pH
 6 with N HCl, and filtered gave 0.78 g. crude N-[[[(2-amino-5,6,7,8-
 tetrahydro-4-hydroxy-6-quinazolinyl)methyl]amino]benzoyl]-L-glutamic acid
 (5,8-dideaza-5,6,7,8-tetrahydrolic acid) (X), m. 188-210°; about
 0.15 g. crude X in 10 cc. satd. aq. NaHCO₃ treated with Norit and
 adjusted
 to pH 5 with N HCl, the ppt. extd. with hot C₅H₅N (80), and the ext.
 dild.
 with 50 cc. Et₂O gave purified X, m. 199-202°. X (10 mg.) heated 1
 hr. at 100° with 2 cc. 4N HCl and chromatographed on paper with
 solvent C gave a spot for L-glutamic acid, Rad 0.53. VIII (0.54 g.),
 0.95 g. p-ClC₆H₄NH₂, 5.0 cc. Butyl Cellosolve, and a trace NaI refluxed 15
 hrs., cooled, dild. with 100 cc. Et₂O, filtered, the residue washed with
 Et₂O and H₂O, the crude product (0.16 g.) dissolved in N HCl and
 centrifuged, the supernatant neutralized with aq. NaHCO₃, the ppt. washed
 with H₂O, dissolved in 6 cc. hot Me Cellosolve, treated with Norit, and
 reprecip. with H₂O gave 0.02 g. 6-(p-ClC₆H₄NHCH₂) analog of V, m.
 229-31° with darkening at 190°, Rad 1.38 (solvent C). SOCl₂
 (16.4 g.) added dropwise to 0.90 g. V and then with 0.35 g. C₅H₅N,
 stirred
 3.75 hrs. at room temp., dild. with 30 cc. dry Et₂O, cooled, filtered,
 and
 the residue washed with 20 cc. dry Et₂O yielded 6-chloroformyl analog
 (XI)
 of V.HCl. XI.HCl from 0.50 g. V in 30 cc. Et₂O treated 20 min. with dry
 NH₃ and filtered, the residue washed with 10 cc. Et₂O and H₂O, dried
 (0.55

L7 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 AN 1959:51174 CAPLUS
 DN 53:51174
 GREF 53:9232a-1,9233a-1,9234a-b
 TI Potential anticancer agents. IX. Tetrahydroquinazoline analogs of
 tetrahydrofolic acid. 1
 AU Koehler, Ruth; Goodman, Leon; DeGraw, J.; Baker, B. R.
 CS Stanford Research Inst., Menlo Park, CA
 SO Journal of the American Chemical Society (1958), 80, 5779-86
 CODEN: JACSAT; ISSN: 0002-7863
 DT Journal
 LA Unavailable
 OS CASHREACT 53:51174
 AB CH₂:CHCN (53 g.) added dropwise with stirring to 80 g. CH₂(CO₂Et)₂ and
 100 cc. Me₃COH at 30-5° during 50 min., stirred 2 hrs., kept at room
 temperature overnight, treated with stirring and cooling with dilute HCl
 to pH 3,
 poured onto 500 g. ice, and filtered yielded 129 g. (NCCH₂CH₂)₂C(CO₂Et)₂
 (I), m. 63.5-64°. I (128.2 g.) and 550 cc. 6N HCl refluxed 20
 hrs., evaporated, extracted with Me₂CO, the extract filtered, and
 evaporated gave 108.5
 g. HO₂CC(CH₂CH₂CO₂H)₂ (II), m. 114-15°. II (107 g.), 149.8 g.
 absolute MeOH, 468 cc. (CH₂Cl)₂, and 4.7 cc. concentrated H₂SO₄ refluxed
 53 hrs. and
 the organic layer worked up yielded 92.8 g. tri-Me ester (III) of II,
 b0.05
 118-20°. III (400 g.), 100 g. NaOMe, and 1900 cc. dry C₆H₆
 refluxed 6 hrs. with stirring, treated with stirring and cooling with 200
 cc. glacial AcOH in 2500 cc. H₂O, the aqueous layer extracted with C₆H₆,
 and the
 combined exts. worked up yielded 197.8 g. 2,4-dicarbomethoxycyclohexanone
 (IV), b₅ 135-8°, and 44.4 g. III. III (20.0 g.) treated in exactly
 the same manner, the cooled mixture added to 45 cc. glacial AcOH in 320
 cc.
 cold H₂O, the aqueous layer extracted with C₆H₆, the extract washed with
 H₂O, extracted
 with 3% aqueous NaOH, the basic extract added immediately to 20 cc.
 AcOH in 100
 cc. H₂O and extracted with C₆H₆, and the extract worked up yielded 12.1
 g. IV, m.
 41-3°. A similar run with NaH (27.2% suspension in mineral oil) as
 the condensing agent yielded 58% IV, m. 42-3°. IV (2.14 g.), 1.53
 g. H₂NCl: (NH)₂HCl, and 1.8 g. NaOMe in 32 cc. MeOH refluxed 3 hrs.,
 kept overnight, treated with 7 cc. 50% aqueous NaOH, refluxed 75 min.,
 acidified with AcOH, filtered, and the crude product (2.19 g.) reprecip.
 from aqueous saturated NaHCO₃ with dilute HCl yielded
 2-amino-5,6,7,8-tetrahydro-4-
 hydroxyquinazoline-6-carboxylic acid (V), Rad 1.82 (5% aqueous Na₂HPO₄,
 solvent A), 3.0 g.) and 60 cc. Ac₂O heated 3 hrs. at 135-50°,
 poured onto 100 g. ice, filtered, and the filtrate evaporated in vacuo
 to 30
 cc. yielded 2.74 g. N-Ac derivative of V, m. above 300°. V (0.21 g.)
 and 0.30 g. p-MeC₆H₄SO₃H₂O in 15 cc. BuOH heated 1.25 hrs. with slow
 distillation of the BuOH, the residue treated with 10 cc. each saturated
 aqueous NaHCO₃
 and C₆H₆, and the upper layer (containing suspended solid) worked up
 gave 0.27

L7 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 g.), heated with stirring in 10 cc. satd. aq. NaHCO₃, washed with H₂O,
 dried, dissolved in 40 cc. cold 0.1N HCl, filtered, and neutralized with
 aq. NaHCO₃ yielded the amide of V. 0.5H₂O, m. above 300°, Rad 1.53
 (solvent A), 0.80 (solvent B), 0.71 (solvent C). XI from 0.20 g. V added
 to 0.56 g. p-ClC₆H₄NH₂ in 6 cc. dry Me₂CO, stirred 3 hrs., dild. with 5
 cc. Et₂O, filtered, the residue washed with Et₂O and H₂O, the crude
 product (0.22 g.) heated with stirring in 5 cc. satd. aq. NaHCO₃,
 filtered, washed with H₂O, dissolved in 15 cc. HCONMe₂, filtered, dild.
 to
 incipient turbidity with H₂O, and chilled yielded 0.10 g.
 2-amino-6-(p-chlorophenylcarbamoyl)-5,6,7,8-tetrahydro-4-
 hydroxyquinazoline (XII), Rad 1.33 (solvent B). Similarly were prepd.
 the
 following analogs of XII (4% yield given): diethylcarbamoyl 35,
 o-chlorophenylcarbamoyl 34, 3,4-dichlorophenylcarbamoyl 64,
 m-trifluoromethylcarbamoyl 55, p-fluorophenylcarbamoyl 50. XI (0.42 g.)
 from 0.42 g. V added in small portions during 0.5 hr. to 0.53 g. IX in 4
 cc. C₅H₅N at 0°, stirred 2 hrs. at room temp., kept overnight,
 added to 100 g. ice, and centrifuged gave V, the supernatant concd. in
 vacuo to about 25 cc. and the crude solid (0.74 g.) recrystd. from 40 cc.
 hot H₂O yielded 0.06 g. N-[p-(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-
 quinazolinyl)carbamoylamino]-benzoyl]-L-glutamic acid (XIIa), m.
 221-3°. Abs. MeOH (10 cc.) and 0.30 g. AcCl kept 10 min. at
 0°, treated with 1.00 g. IX and then 1.0 cc. AcCl, refluxed 10
 min., evapd. in vacuo, the residue treated with 10 cc. H₂O, adjusted to
 pH
 8 with concd. NH₄OH, and the ppt. cooled and dried gave 0.89 g. di-Me
 ester (XIII) of IX, m. 110-12.5° (EtOH-Et₂O), Rad 2.18 (solvent A).
 XI from 0.21 g. V added to 0.29 g. XIII in 2 cc. dry C₅H₅N, stirred
 overnight, dild. with 5 cc. H₂O, evapd. to dryness, the residue slurried
 with 28 cc. H₂O, 15 cc. hot satd. aq. NaHCO₃, and 20 cc. H₂O, and the
 crude product (0.30 g.) recrystd. from HCONMe₂-MeOH and then aq. HCONMe₂
 yielded 47% di-Me ester of XIIa, m. 285-5.5°, Rad 1.34 (solvent B),
 1.60 (solvent C). XI from 4.2 g. V added in small portions with stirring
 to 3.4 g. Et-SH in 40 cc. dry pyridine, stirred at room temp. overnight,
 poured into 600 cc. iced H₂O, filtered, and the brown residue (4.1 g.)
 recrystd. from 350 cc. H₂O and 175 cc. Methyl Cellosolve gave 3.3 g.
 crude
 cryst. material, darkens near 220°, softens near 260°, and
 does not show a definite m.p. to 300°; a 0.26-g. sample stirred
 with 30 cc. 0.1NHCl and filtered, the filtrate neutralized with aq.
 NaHCO₃, and the ppt. recrystd. from 28 cc. Me Cellosolve gave 0.07 g.
 pure
 Et 2-amino-5,6,7,8 - tetrahydro - 4 - hydroxyquinazoline - 6 -
 thiolcarboxylate (XIV), appeared to sublime near 245°, Rad 1.35
 (solvent C). XI from 4.62 g. V, 11.0 cc. PHS₂, and 4 cc. pyridine gave
 5.55 g. Ph ester analog of XIV, did not melt below 300°. VI (1.00
 g.) and 4 cc. 85% N₂H₄.H₂O refluxed 80 min. with stirring and evapd. in
 vacuo, the solid residue washed with cold H₂O, and a 0.20-g. sample of
 the
 product (0.84 g.) recrystd. from 30 cc. HCONMe₂ and 22 cc. H₂O with C
 yielded carbonylhydrazide (XV) of V. NaNO₂ (1.04 g.) in 20 cc. H₂O added
 dropwise with stirring and cooling to 2.66 g. XV in 9.3 cc. glacial AcOH,
 9.3 cc. glacial AcOH, and 46 cc. H₂O during 10 min., stirred 1 hr., added
 dropwise with stirring to 50 cc. 1.5N HCl at 55° during 10 min.,
 stirred 45 min. at 55°, adjusted to pH 7 with satd. aq. Na₂CO₃,
 and added to 5.0 g. picric acid in 350 cc. H₂O gave the diplicate (XVI) of
 2,6-diamino-5,6,7,8-tetrahydro-4-hydroxyquinazoline (XVII); it has no
 definite m.p., but slowly darkens and is completely decompd. at
 285°. XVI (1.00 g.) in 20 cc. H₂O and 50 cc. C₆H₆ treated with 2.6

L7 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 cc. concd. HCl, the aq. layer washed with C6H6 and evapd. in vacuo, the
 crude residue dissolved in 60 cc. abs. MeOH and filtered, and the
 filtrate
 dild. with 200 cc. dry Et2O pptd. 0.54 g. XVII.2HCl, m. 272-3°, Rad
 2.28 (solvent A), 0.52 (solvent C). XVII.2HCl (0.40 g.) and 0.58 g.
 NaHCO3 in 10 cc. H2O treated with stirring with 0.34 g. p-FC6H4SO2Cl,
 stirred 21 hrs. at room temp., and filtered gave 0.46 g. crude product; a
 0.34-g. sample recrystd. with C from aq. HCONMe2, dissolved in 5 cc. N
 NaOH, decolorized with Norite, filtered, and the filtrate adjusted to pH
 6-7 with N HCl gave 0.22 g. pure
 N-(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-
 quinazolinyl)-p-fluorobenzenesulfonamide, m. above 300°. XVII.2HCl
 (0.40 g.) and 0.58 g. NaHCO3 in 10 cc. H2O treated with stirring with
 0.36
 g. 3,4-Cl2C6H3COCl, stirred 22 hrs. at room temp., filtered, and the
 crude
 product (0.53 g.) recrystd. from aq. HCONMe2 yielded 0.37 g.
 N-(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-quinazolinyl)-3,4-
 dichlorobenzamide, m. above 300°.
 IT 5452-18-6, 4-Quinazolinol, 2-amino-6-(3,4-dichlorobenzamido)-
 5,6,7,8-tetrahydro-
 (preparation of)
 RN 5452-18-6 CAPLUS
 CN Benzamide, N-(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-quinazolinyl)-3,4-
 dichloro- (8CI) (CA INDEX NAME)



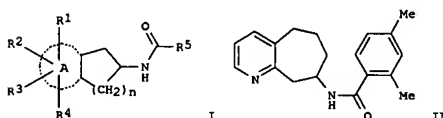
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L8	30	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"STROBEL HARTMUT"/AU
L9	27	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"WOHLFART PAULUS"/AU
L10	48	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L8 OR L9
L12	1	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L10 AND CYCLOALKENYL?

=> d bib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS ON STN
 AN 2004:117214 CAPLUS
 DN 140:163869
 TI Preparation of acylated, heteroaryl-condensed cycloalkenylamines
 for treatment of cardiovascular disorders
 IN Strobel, Hartmut; Wohlfart, Paulus
 PA Aventis Pharma Deutschland GmbH, Germany
 SO Eur. Pat. Appl., 35 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1388342	A1	20040211	EP 2002-17586	20020807
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CA 2494302	AA	20040219	CA 2003-2494302	20030724
WO 2004014372	A1	20040219	WO 2003-EP8103	20030724
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003251466	A1	20040223	AU 2003-251466	20030724
EP 1534277	A1	20050601	EP 2003-784055	20030724
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003013240	A	20050927	BR 2003-13240	20030724
JP 2005538124	T2	20051215	JP 2004-526765	20030724
US 2004092513	A1	20040513	US 2003-632083	20030731
NO 2005000830	A	20050216	NO 2005-830	20050216
FRAI EP 2002-17586	A	20020807		
US 2002-432441P	P	20021211		
WO 2003-EP8103	W	20030724		
OS MARPAT 140:163869				
GI				



L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 AB The title compds. (I) [the ring A = an aromatic 5-membered or 6-membered ring containing 1 or 2-nitrogen atoms as ring heteroatoms, or an aromatic 5-membered ring containing 1 ring heteroatom which is an oxygen atom or a sulfur atom or 2 ring heteroatoms one of which is a nitrogen atom and the other of which is an oxygen atom or a sulfur atom; R1, R4 = H, each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl, COR9, CONR10R11, CO2R12, CF3, halogens, cyano, NR13R14, OR1, S(O)mR16, SO2NR17R18, NO2; R1 and R4 cannot be halogen, cyano or NO2 if R1 or R4 is bonded to a ring nitrogen atom; R2, R3 = H, halogens, cyano, (un)substituted C1-10 alkyl, PhCONH, PhSO2-O, (C1-6 alkyl)-CO, or PhCO, OH, C1-10 alkoxy, PhO, S(O)mR19, CF3, cyano, NO2, C1-10 alkylamino, di(C1-10 alkyl)amino, (C1-6 alkyl)-CONH; but R2 and R3 cannot be halogen, cyano or NO2 if R2 or R3 is bonded to a ring nitrogen atom; R5 = (un)substituted Ph, naphth-1-yl, naphth-2-yl, a 5-membered to 10-membered, aromatic, monocyclic or bicyclic heterocycle containing one or more heteroatoms selected from the group consisting of N, O and S; R9 = (un)substituted C1-10 alkyl; R10, R12, R17 = H, (un)substituted C1-10 alkyl; R11, R18 = H, C1-10 alkyl; R13, R14 = H, C1-6 alkyl, each (un)substituted Ph, benzyl, heteroaryl, (C1-6 alkyl)-CO; R16 = (un)substituted C1-10 alkyl, CF3, each (un)substituted Ph or heteroaryl; m = 0, 1, 2; n = 1, 2, 3] are prepared. These compds. upregulate the expression of the enzyme endothelial nitric oxide (NO) synthase and can be applied in conditions in which an increased expression of said enzyme or an increased NO level or the normalization of a decreased NO level is desired. They are useful in the treatment of various disease states including cardiovascular disorders such as atherosclerosis, thrombosis, coronary artery disease, hypertension, and cardiac insufficiency. The diseases also include stable or unstable angina pectoris, coronary heart disease, Prinzmetal angina, acute coronary syndrome, heart failure, myocardial infarction, stroke, peripheral artery occlusive disease, endothelial dysfunction, restenosis, endothelial damage after PT-CA, essential hypertension, pulmonary hypertension, secondary hypertension, renovascular hypertension, chronic glomerulonephritis, erectile dysfunction, ventricular arrhythmia, diabetes, diabetes complications, nephropathy, retinopathy, angiogenesis, asthma bronchiale, chronic renal failure, cirrhosis of the liver, osteoporosis, restricted memory performance or a restricted ability to learn, or for the lowering of cardiovascular risk of postmenopausal women or of women taking contraceptives. For example, 2,4-dimethyl-N-(6,7,8,9-tetrahydro-5H-cyclohepta[b]pyridin-8-yl)benzamide (II) inhibited activation of human endothelial nitric oxide synthetase gene cloned in human endothelial cell line with EC50 of 0.054 μ M.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 11:50:53 ON 08 MAR 2006)

FILE 'REGISTRY' ENTERED AT 11:51:02 ON 08 MAR 2006

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L1          STRUCTURE UPLOADED
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L2          STRUCTURE UPLOADED
            D
L3          STRUCTURE UPLOADED
            D
L4          STRUCTURE UPLOADED
            D
L5          0 SEA SSS SAM L1 OR L2 OR L3 OR L4
L6          51 SEA SSS FUL L1 OR L2 OR L3 OR L4

FILE 'CAPLUS' ENTERED AT 11:53:22 ON 08 MAR 2006
L7          10 SEA ABB=ON  PLU=ON  L6
            D QUE L7 STAT
            D 1-10 BIB ABS HITSTR
            E STROBEL HARTMUT/AU
L8          30 SEA ABB=ON  PLU=ON  "STROBEL HARTMUT"/AU
            E WOHLFART PAULUS/AU
L9          27 SEA ABB=ON  PLU=ON  "WOHLFART PAULUS"/AU
L10         48 SEA ABB=ON  PLU=ON  L8 OR L9
L11         8 SEA ABB=ON  PLU=ON  L10 AND CYCLOALK?
L12         1 SEA ABB=ON  PLU=ON  L10 AND CYCLOALKENYL?
            D QUE L12 STAT
            D BIB ABS

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FILE HOME

FILE REGISTRY

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STRUCTURE FILE UPDATES: 7 MAR 2006 HIGHEST RN 876109-17-0

DICTIONARY FILE UPDATES: 7 MAR 2006 HIGHEST RN 876109-17-0

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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
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FILE LAST UPDATED: 7 Mar 2006 (20060307/ED)

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